

# Refine Search

## Search Results -

| Terms | Documents |
|-------|-----------|
| L11   | 398       |

**Database:**

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L14

Refine Search

Recall Text

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Interrupt

## Search History

DATE: Tuesday, June 20, 2006 [Printable Copy](#) [Create Case](#)

| <u>Set Name</u>   | <u>Query</u>                         | <u>Hit Count</u> | <u>Set Name</u> |
|---|--------------------------------------|------------------|-----------------|
| result set  |                                      |                  |                 |
| <u>DB</u> =USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR |                                      |                  |                 |
| <u>L14</u>  | L11                                  | 398              | <u>L14</u>      |
| <u>DB</u> =USPT; PLUR=YES; OP=OR                          |                                      |                  |                 |
| <u>L13</u>  | L11 and (salmine)                    | 2                | <u>L13</u>      |
| <u>L12</u>  | 6624141.pn.                          | 1                | <u>L12</u>      |
| <u>L11</u>  | L10 and (purified protamine)         | 398              | <u>L11</u>      |
| <u>L10</u>  | L9 and l8                            | 1132             | <u>L10</u>      |
| <u>L9</u>   | L7 and composition                   | 319684           | <u>L9</u>       |
| <u>L8</u>   | Yang.in.                             | 9812             | <u>L8</u>       |
| <u>L7</u>   | L6 and (low toxicity)                | 890473           | <u>L7</u>       |
| <u>L6</u>   | L5 and (no toxicity)                 | 1039559          | <u>L6</u>       |
| <u>L5</u>   | L4 and (reduced immunoresponsivenes) | 1116711          | <u>L5</u>       |
| <u>L4</u>   | L3 (low molecular weight heparin)    | 2250321          | <u>L4</u>       |
| <u>L3</u>   | L2 and (inactivate heparin)          | 1355             | <u>L3</u>       |
| <u>L2</u>   | L1 and (neutralize heparin)          | 1355             | <u>L2</u>       |
| <u>L1</u>   | protamine and heparin                | 1355             | <u>L1</u>       |

END OF SEARCH HISTORY

# Refine Search

## Search Results -

| Terms             | Documents |
|-------------------|-----------|
| L11 and (salmine) | 2         |

Database:

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
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## Search History

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### Set Name Query

side by side

Hit Count Set Name  
result set

DB=USPT; PLUR=YES; OP=OR

|            |                                      |         |            |
|------------|--------------------------------------|---------|------------|
| <u>L13</u> | L11 and (salmine)                    | 2       | <u>L13</u> |
| <u>L12</u> | 6624141.pn.                          | 1       | <u>L12</u> |
| <u>L11</u> | L10 and (purified protamine)         | 398     | <u>L11</u> |
| <u>L10</u> | L9 and l8                            | 1132    | <u>L10</u> |
| <u>L9</u>  | L7 and composition                   | 319684  | <u>L9</u>  |
| <u>L8</u>  | Yang.in.                             | 9812    | <u>L8</u>  |
| <u>L7</u>  | L6 and (low toxicity)                | 890473  | <u>L7</u>  |
| <u>L6</u>  | L5 and (no toxicity)                 | 1039559 | <u>L6</u>  |
| <u>L5</u>  | L4 and (reduced immunoresponsivenes) | 1116711 | <u>L5</u>  |
| <u>L4</u>  | L3 (low molecular weight heparin)    | 2250321 | <u>L4</u>  |
| <u>L3</u>  | L2 and (inactivate heparin)          | 1355    | <u>L3</u>  |
| <u>L2</u>  | L1 and (neutralize heparin)          | 1355    | <u>L2</u>  |
| <u>L1</u>  | protamine and heparin                | 1355    | <u>L1</u>  |

END OF SEARCH HISTORY

# Hit List

First Clear

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Fwd Refs

Bkwd Refs

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## Search Results - Record(s) 1 through 2 of 2 returned.

### 1. Document ID: US 6624141 B1

L13: Entry 1 of 2

File: USPT

Sep 23, 2003

US-PAT-NO: 6624141

DOCUMENT-IDENTIFIER: US 6624141 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Protamine fragment compositions and methods of use

DATE-ISSUED: September 23, 2003

#### INVENTOR-INFORMATION:

| NAME            | CITY                | STATE | ZIP CODE | COUNTRY |
|-----------------|---------------------|-------|----------|---------|
| Yang; Victor C. | Ann Arbor           | MI    |          |         |
| Byun; Youngro   | Kwangsan-Ku Kwangju |       |          | KR      |

US-CL-CURRENT: 514/2; 530/350

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Ima](#)

### 2. Document ID: US 5607567 A

L13: Entry 2 of 2

File: USPT

Mar 4, 1997

US-PAT-NO: 5607567

DOCUMENT-IDENTIFIER: US 5607567 A

TITLE: Protamine-responsive polymeric membrane electrode

DATE-ISSUED: March 4, 1997

#### INVENTOR-INFORMATION:

| NAME               | CITY      | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Yun; Jong H.       | Taegu     |       |          | KR      |
| Meyerhoff; Mark E. | Ann Arbor | MI    |          |         |
| Yang; Victor C.    | Ann Arbor | MI    |          |         |

US-CL-CURRENT: 205/777.5; 204/403.08, 204/403.1, 204/403.14, 204/415, 204/416, 204/418,  
205/778, 205/789.5, 205/792.5, 422/82.03, 435/24, 435/287.1, 435/817

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Ima](#)

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Terms

Documents

L11 and (salmine)

2

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|--------------|--|--|--|
| NEWS 1       | Web Page URLs for STN Seminar Schedule - N. America  |  |  |
| NEWS 2       | "Ask CAS" for self-help around the clock   |  |  |
| NEWS 3       | JAN 17 Pre-1988 INPI data added to MARPAT  |  |  |
| NEWS 4       | FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results   |  |  |
| NEWS 5       | FEB 22 The IPC thesaurus added to additional patent databases on STN   |  |  |
| NEWS 6       | FEB 22 Updates in EPFULL; IPC 8 enhancements added   |  |  |
| NEWS 7       | FEB 27 New STN AnaVist pricing effective March 1, 2006   |  |  |
| NEWS 8       | MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes  |  |  |
| NEWS 9       | MAR 22 EMBASE is now updated on a daily basis  |  |  |
| NEWS 10      | APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAPULL  |  |  |
| NEWS 11      | APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL  |  |  |
| NEWS 12      | APR 04 STN AnaVist \$500 visualization usage credit offered  |  |  |
| NEWS 13      | APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced  |  |  |
| NEWS 14      | APR 12 Improved structure highlighting in FQHIT and QHIT display in MARPAT   |  |  |
| NEWS 15      | APR 12 Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected                                   |  |  |
| NEWS 16      | MAY 10 CA/Cplus enhanced with 1900-1906 U.S. patent records  |  |  |
| NEWS 17      | MAY 11 KOREAPAT updates resume   |  |  |
| NEWS 18      | MAY 19 Derwent World Patents Index to be reloaded and enhanced   |  |  |
| NEWS 19      | MAY 30 IPC 8 Rolled-up Core codes added to CA/Cplus and USPATFULL/USPAT2   |  |  |
| NEWS 20      | MAY 30 The F-Term thesaurus is now available in CA/Cplus   |  |  |
| NEWS 21      | JUN 02 The first reclassification of IPC codes now complete in INPADOC   |  |  |
| NEWS EXPRESS | JUNE 16 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 23 MAY 2006. |  |  |
| NEWS HOURS   | STN Operating Hours Plus Help Desk Availability  |  |  |
| NEWS LOGIN   | Welcome Banner and News Items  |  |  |
| NEWS IPC8    | For general information regarding STN implementation of IPC 8  |  |  |
| NEWS X25     | X.25 communication option no longer available after June 2006  |  |  |

Enter NEWS followed by the item number or name to see news on that specific topic.

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=> s protamine  
.L1 29908 PROTAMINE

=> s 11 and purified

=> s 12 and bioactive  
L3 645 L2 AND BIOACTIVE

=> s 13 and (not native)  
MISSING TERM 'AND (NOT'  
.The search profile entered contains a left parenthesis,  
'(' followed by an operator.

=> s l3 and heparin  
L4 423 L3 AND HEPARIN

=> s low molecular weight heparin  
L5 28407 LOW MOLECULAR WEIGHT HEPARIN

11

' IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s 15 and 14  
L6 58 L5 AND L4

=> d his

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS, BIOTECHDS, SCISEARCH' ENTERED AT 14:35:44 ON 20 JUN 2006

L1 29908 S PROTAMINE  
L2 6953 S L1 AND PURIFIED  
L3 645 S L2 AND BIOACTIVE  
L4 423 S L3 AND HEPARIN  
L5 28407 S LOW MOLECULAR WEIGHT HEPARIN  
L6 58 S L5 AND L4

=> s 16 and (low toxicity)  
L7 6 L6 AND (LOW TOXICITY)

=> d 17 ti abs ibib tot

L7 ANSWER 1 OF 6 USPATFULL on STN

.TI Hinge core mimetibodies, compositions, methods and uses  
AB The present invention relates to at least one novel human hinge core mimetobody or specified portion or variant, including isolated nucleic acids that encode at least one hinge core mimetobody or specified portion or variant, hinge core mimetobody or specified portion or variants, vectors, host cells, transgenic animals or plants, and methods of making and using thereof, including therapeutic compositions, methods and devices.

ACCESSION NUMBER: 2006:150969 USPATFULL  
.TITLE: Hinge core mimetibodies, compositions, methods and uses  
INVENTOR(S): Huang, ChiChi, Berwyn, PA, UNITED STATES  
Heavner, George A., Malvern, PA, UNITED STATES  
Knight, David M., Berwyn, PA, UNITED STATES  
Ghrayeb, John, Downingtown, PA, UNITED STATES  
Scallion, Bernard J., Wayne, PA, UNITED STATES  
Nesspor, Thomas C., Collegeville, PA, UNITED STATES

| NUMBER         | KIND | DATE          |
|----------------|------|---------------|
| US 2006127404  | A1   | 20060615      |
| US 2004-953613 | A1   | 20040929 (10) |

| NUMBER | DATE |
|--------|------|
|--------|------|

PRIORITY INFORMATION: US 2003-507231P 20030930 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US  
.NUMBER OF CLAIMS: 23  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 172 Drawing Page(s)  
LINE COUNT: 10748

L7 ANSWER 2 OF 6 USPATFULL on STN

TI Methods and products related to the intracellular delivery of polysaccharides  
AB The invention relates, in part, to methods and compositions for the

intracellular delivery of polysaccharides. In particular, the methods and compositions relate to the intracellular delivery of glycosaminoglycans, such as **heparin**. The invention in other aspects relates to the use of glycosaminoglycans for the treatment of proliferative disorders, such as cancer. The invention is still other aspects relates to improving cell viability. The invention also relates to the delivery of polysaccharides while avoiding unwanted effects of the polysaccharides. For example, **heparin** can be delivered while avoiding its anticoagulant effects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2006:98545 USPATFULL  
TITLE: Methods and products related to the intracellular delivery of polysaccharides  
INVENTOR(S): Berry, David A., Brookline, MA, UNITED STATES  
Anderson, Daniel G., Framingham, MA, UNITED STATES  
Lynn, David M., Madison, WI, UNITED STATES  
Sasisekharan, Ram, Bedford, MA, UNITED STATES  
Langer, Robert S., Newton, MA, UNITED STATES  
.PATENT ASSIGNEE(S): Massachusetts Institute of Technology, Cambridge, MA, UNITED STATES (U.S. corporation)

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2006083711  | A1   | 20060420      |
| APPLICATION INFO.:  | US 2005-107360 | A1   | 20050415 (11) |

  

|                       | NUMBER  | DATE          |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2004-562873P   | 20040415 (60) |
| DOCUMENT TYPE:        | Utility   |               |
| FILE SEGMENT:         | APPLICATION   |               |
| LEGAL REPRESENTATIVE: | WOLF GREENFIELD & SACKS, PC, FEDERAL RESERVE PLAZA, 600 ATLANTIC AVENUE, BOSTON, MA, 02210-2211, US |               |
| NUMBER OF CLAIMS:     | 30  |               |
| EXEMPLARY CLAIM:      | 1   |               |
| NUMBER OF DRAWINGS:   | 39 Drawing Page(s)  |               |
| LINE COUNT:           | 4084  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 6 USPATFULL on STN

TI **Protamine** fragment compositions and methods of use  
AB Provided are **bioactive, low-toxicity** **protamine** fragments, compositions, combinations, kits and methods of using these components in a variety of embodiments, including neutralizing **heparin** and reducing post-operative bleeding. Improved **protamine** fragment-insulin solutions and methods for treating diabetes are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:118259 USPATFULL  
TITLE: **Protamine** fragment compositions and methods of use  
INVENTOR(S): Yang, Victor C., Ann Arbor, MI, UNITED STATES  
Byun, Youngro, Kwangsan-Ku Kwangju, KOREA, REPUBLIC OF

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 2005101532   | A1   | 20050512      |
| APPLICATION INFO.:    | US 2003-668663  | A1   | 20030923 (10) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2000-700967, filed on 16 Nov 2000, GRANTED, Pat. No. US 6624141 A 371 of International Ser. No. WO 2000-US6876, filed on 15 Mar |      |               |

2000

|  | NUMBER   | DATE          |
|--|--|---------------|
| PRIORITY INFORMATION:                      | US 1999-124873P  | 19990317 (60) |
| DOCUMENT TYPE:                             | Utility  |               |
| FILE SEGMENT:                              | APPLICATION  |               |
| LEGAL REPRESENTATIVE:                      | WILLIAMS, MORGAN & AMERSON, P.C., 10333 RICHMOND, SUITE 1100, HOUSTON, TX, 77042, US |               |
| NUMBER OF CLAIMS:                          | 19   |               |
| EXEMPLARY CLAIM:                           | 1-47   |               |
| NUMBER OF DRAWINGS:                        | 4 Drawing Page(s)  |               |
| LINE COUNT:                                | 2727   |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |               |

L7 ANSWER 4 OF 6 USPATFULL on STN  
TI Engineered anti-target immunoglobulin derived proteins, compositions, methods and uses  
AB The present invention relates to anti-target immunoglobulin derived proteins, including isolated nucleic acids that encode at least one anti-target Ig derived protein, target, vectors, host cells, transgenic animals or plants, and methods of making and using thereof, including therapeutic compositions, methods and devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2005:38349 USPATFULL  
TITLE: Engineered anti-target immunoglobulin derived proteins, compositions, methods and uses  
INVENTOR(S): Lu, Jin, Boothwyn, PA, UNITED STATES

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2005033029  | A1   | 20050210      |
| APPLICATION INFO.:  | US 2004-872932 | A1   | 20040621 (10) |

|  | NUMBER   | DATE          |
|--|--|---------------|
| PRIORITY INFORMATION:                      | US 2003-483654P  | 20030630 (60) |
| DOCUMENT TYPE:                             | Utility  |               |
| FILE SEGMENT:                              | APPLICATION  |               |
| LEGAL REPRESENTATIVE:                      | PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003 |               |
| NUMBER OF CLAIMS:                          | 33   |               |
| EXEMPLARY CLAIM:                           | 1  |               |
| NUMBER OF DRAWINGS:                        | 176 Drawing Page(s)  |               |
| LINE COUNT:                                | 6132   |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |               |

L7 ANSWER 5 OF 6 USPATFULL on STN  
TI Combination therapy for the treatment of diseases involving inflammatory components  
AB Compositions and methods for treating diseases that are associated with inflammation are provided. Such diseases include arthritis (particularly rheumatoid arthritis) and other autoimmune disorders, asthma, cardio- and cerebrovascular disease, burns, psoriasis, reperfusion injury, and traumatic CNS and spinal cord injury. The compositions generally comprise at least one C5a antagonist and at least one C5a receptor-inactive therapeutic agent. The methods involve co-administration of at least one C5a antagonist and at least one C5a receptor-inactive therapeutic agent to a patient. The C5a antagonist and C5a receptor-inactive therapeutic agent may be present within the same composition, or may be administered separately to the patient.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:19478 USPATFULL

TITLE: Combination therapy for the treatment of diseases involving inflammatory components

INVENTOR(S): Krause, James E., Madison, CT, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2004014782 A1 20040122

APPLICATION INFO.: US 2003-401113 A1 20030327 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-368925P 20020329 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Leslie-Anne Horvath, Neurogen Corporation, Patent Department, 35 NE Industrial Road, Branford, CT, 06405

NUMBER OF CLAIMS: 35

EXEMPLARY CLAIM: 1

LINE COUNT: 9573

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 6 USPATFULL on STN

TI Protamine fragment compositions and methods of use

AB Provided are bioactive, low-toxicity

protamine fragments, compositions, combinations, kits and methods of using these components in a variety of embodiments, including neutralizing heparin and reducing post-operative bleeding.

Improved protamine fragment-insulin solutions and methods for treating diabetes are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:253624 USPATFULL

TITLE: Protamine fragment compositions and methods of use

INVENTOR(S): Yang, Victor C., Ann Arbor, MI, United States

PATENT ASSIGNEE(S): Byun, Youngro, Kwangsan-Ku Kwangju, KOREA, REPUBLIC OF  
The Regents of The University of Michigan, Ann Arbor,  
MI, United States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6624141 B1 20030923

WO 2000055196 20000921

APPLICATION INFO.: US 2000-700967 20001116 (9)  
WO 1999-US6876 19990309

NUMBER DATE

PRIORITY INFORMATION: US 1999-124873P 19990317 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Low, Christopher S. F.

ASSISTANT EXAMINER: Robinson, Hope A.

LEGAL REPRESENTATIVE: Williams, Morgan and Amerson

NUMBER OF CLAIMS: 89

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 2952

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS,  
BIOSIS, BIOTECHDS, SCISEARCH' ENTERED AT 14:35:44 ON 20 JUN 2006

L1 29908 S PROTAMINE  
L2 6953 S L1 AND PURIFIED  
L3 645 S L2 AND BIOACTIVE  
L4 423 S L3 AND HEPARIN  
L5 28407 S LOW MOLECULAR WEIGHT HEPARIN  
L6 58 S L5 AND L4  
L7 6 S L6 AND (LOW TOXICITY)

=> s l6 and ( immunoresponsiveness)  
L8 22 L6 AND (IMMUNORESPONSIVENESS)

=> s heparin and (inactivation)  
L9 8949 HEPARIN AND (INACTIVATION)

=> s l9 and (protamine)  
L10 895 L9 AND (PROTAMINE)

=> s l8 and l10  
L11 21 L8 AND L10

=> d l11 ti abs ibib to  
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RLI, PRAI, DT, FS, REP, REN, EXNAM, LREP, CLMN, ECL,  
DRWN, AB, GOVI, PARN, SUMM, DRWD, DETD, CLM, INCL,  
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IPCI-2, IPCR, EXF, ARTU  
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BIB ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PTERM, DCD, RLI,  
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CBIB ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PRAI, DT, FS  
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PRAI, IC, IPCI, IPCI-2, IPCR, INCL, INCLM, INCLS, NCL,  
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FPG ----- FP plus PAGE.DRAW

GI ----- PN and page image numbers  
HIT ----- All fields containing hit terms  
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HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
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IMAX ----- MAX, indented with text labels  
IMAX.EX ---- IMAX for original and latest publication  
IND ----- INCL, INCLM, INCLS, NCL, NCLM, NCLS, IC, IPCI, IPCI-2, IPCR,  
EXF, ARTU, OS, CC, SX, ST, IT  
IPC.TAB ---- IPC in tabular format  
ISTD ----- STD, indented with text labels  
KWIC ----- All hit terms plus 20 words on either side  
MAX ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PTERM, DCD,  
RLI, PRAI, DT, FS, REP, REN, EXNAM, LREP, CLMN, ECL,  
DRWN, AB, GOVI, PARN, SUMM, DRWD, DETD, CLM, INCL,  
INCLM, INCLS, NCL, NCLM, NCLS, IC, IPCI, IPCI-2,  
IPCR, EXF, ARTU OS, CC, SX, ST, IT  
MAX.EX ----- MAX for original and latest publication  
OCC ----- List of display fields containing hit terms  
SBIB ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, RLI, PRAI,  
DT, FS, LN.CNT  
STD ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, RLI, PRAI,  
DT, FS, LN.CNT, INCL, INCLM, INCLS, NCL, NCLM, NCLS,  
IC, IPCI, IPCI-2, IPCR, EXF (STD is the default)  
STD.EX ----- STD for original and latest publication  
TRIAL ----- AN, TI, INCL, INCLM, INCLS, NCL, NCLM, NCLS, IC,  
IPCI, IPCI-2, IPCR  
  
SCAN ----- AN, TI, NCL, NCLM, NCLS, IC, IPCI, IPCI-2, IPCR (random display  
without answer number. SCAN must be entered on the  
same line as DISPLAY, e.g., D SCAN)

ENTER DISPLAY FORMAT (STD):end

=> d his

(FILE 'HOME' ENTERED AT 14:35:20 ON 20 JUN 2006)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS,  
BIOSIS, BIOTECHDS, SCISEARCH' ENTERED AT 14:35:44 ON 20 JUN 2006

L1 29908 S PROTAMINE  
L2 6953 S L1 AND PURIFIED  
L3 645 S L2 AND BIOACTIVE  
L4 423 S L3 AND HEPARIN  
L5 28407 S LOW MOLECULAR WEIGHT HEPARIN  
L6 58 S L5 AND L4  
L7 6 S L6 AND (LOW TOXICITY)  
L8 22 S L6 AND ( IMMUNORESPONSIVENESS)  
L9 8949 S HEPARIN AND (INACTIVATION)  
L10 895 S L9 AND (PROTAMINE)  
L11 21 S L8 AND L10

=> d l11 ti abs ibib tot

L11 ANSWER 1 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid  
molecules encoding the albumin fusion proteins of the invention are also

encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2006:99621 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES  
PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2006084794  | A1   | 20060420      |
| APPLICATION INFO.:    | US 2005-264096   | A1   | 20051102 (11) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2001-833245, filed on 12 Apr 2001, PENDING   |      |               |
| DOCUMENT TYPE:        | Utility  |      |               |
| FILE SEGMENT:         | APPLICATION  |      |               |
| LEGAL REPRESENTATIVE: | FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US |      |               |
| NUMBER OF CLAIMS:     | 19   |      |               |
| EXEMPLARY CLAIM:      | 1  |      |               |
| NUMBER OF DRAWINGS:   | 20 Drawing Page(s)   |      |               |
| LINE COUNT:           | 24280  |      |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 2 OF 21 USPATFULL on STN

TI      Albumin fusion proteins

AB      The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:305894 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Ballance, David J., Berwyn, PA, UNITED STATES  
Sleep, Darrell, West Bridgford, UNITED KINGDOM  
Prior, Christopher P., Rosemont, PA, UNITED STATES  
Sadeghi, Homayoun, Doylestown, PA, UNITED STATES  
Turner, Andrew J., Eagleville, PA, UNITED STATES  
PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)  
Delta Biotechnology Limited (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2005266533  | A1   | 20051201      |
| APPLICATION INFO.:    | US 2005-78914  | A1   | 20050314 (11) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-832501, filed on 12 Apr 2001, ABANDONED |      |               |

|  | NUMBER  | DATE  |
|--|---|---|
| PRIORITY INFORMATION:                      | US 2000-256931P<br>US 2000-199384P<br>US 2000-229358P   | 20001221 (60)<br>20000425 (60)<br>20000412 (60) |
| DOCUMENT TYPE:                             | Utility   |   |
| FILE SEGMENT:                              | APPLICATION   |   |
| LEGAL REPRESENTATIVE:                      | FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,<br>901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US |   |
| NUMBER OF CLAIMS:                          | 21  |   |
| EXEMPLARY CLAIM:                           | 1-60  |   |
| NUMBER OF DRAWINGS:                        | 20 Drawing Page(s)  |   |
| LINE COUNT:                                | 13941   |   |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |   |

L11 ANSWER 3 OF 21 USPATFULL on STN

TI      Albumin fusion proteins

AB      The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:      2005:305893 USPATFULL

TITLE:      Albumin fusion proteins

INVENTOR(S):      Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Sadeghi, Homayoun, Doylestown, PA, UNITED STATES  
Prior, Christopher P., Rosemont, PA, UNITED STATES

PATENT ASSIGNEE(S):      Turner, Andrew J., Eagleville, PA, UNITED STATES  
Human Genome Sciences, Inc. (U.S. corporation)  
Principia Pharmaceutical Corporation (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2005266532  | A1   | 20051201      |
| APPLICATION INFO.:    | US 2005-78663  | A1   | 20050314 (11) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-833117, filed on 12 Apr 2001, ABANDONED |      |               |

|  | NUMBER  | DATE  |
|--|---|---|
| PRIORITY INFORMATION:                      | US 2000-229358P<br>US 2000-199384P<br>US 2000-256931P   | 20000412 (60)<br>20000425 (60)<br>20001221 (60) |
| DOCUMENT TYPE:                             | Utility   |   |
| FILE SEGMENT:                              | APPLICATION   |   |
| LEGAL REPRESENTATIVE:                      | FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,<br>901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US |   |
| NUMBER OF CLAIMS:                          | 21  |   |
| EXEMPLARY CLAIM:                           | 1-59  |   |
| NUMBER OF DRAWINGS:                        | 20 Drawing Page(s)  |   |
| LINE COUNT:                                | 12894   |   |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |   |

L11 ANSWER 4 OF 21 USPATFULL on STN

TI      Albumin fusion proteins

AB      The present invention encompasses albumin fusion proteins. Nucleic acid

molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:280980 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES  
PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005244931 A1 20051103  
APPLICATION INFO.: US 2004-967457 A1 20041019 (10)  
RELATED APPLN. INFO.: Division of Ser. No. US 2001-833041, filed on 12 Apr 2001, PENDING  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,  
901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US  
NUMBER OF CLAIMS: 23  
EXEMPLARY CLAIM: 1-33  
NUMBER OF DRAWINGS: 20 Drawing Page(s)  
LINE COUNT: 16289  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 5 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:236070 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES  
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6946134 B1 20050920  
APPLICATION INFO.: US 2001-833111 20010412 (9)

NUMBER DATE

PRIORITY INFORMATION: US 2000-256931P 20001221 (60)  
US 2000-199384P 20000425 (60)

DOCUMENT TYPE: US 2000-229358P 20000412 (60)  
FILE SEGMENT: Utility  
PRIMARY EXAMINER: GRANTED  
CARLSON, Karen Cochrane  
ASSISTANT EXAMINER: Robinson, Hope A.  
LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.  
NUMBER OF CLAIMS: 25  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 21 Drawing Figure(s); 20 Drawing Page(s)  
LINE COUNT: 23429  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 6 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:214989 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES  
Ballance, David J., Berwyn, PA, UNITED STATES  
Turner, Andrew J., Eagleville, PA, UNITED STATES

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 2005186664   | A1   | 20050825      |
| APPLICATION INFO.:    | US 2004-775204  | A1   | 20040211 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. WO 2002-US40891, filed on 23 Dec 2002, PENDING |      |               |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2001-341811P | 20011221 (60) |
|                       | US 2002-350358P | 20020124 (60) |
|                       | US 2002-351360P | 20020128 (60) |
|                       | US 2002-359370P | 20020226 (60) |
|                       | US 2002-360000P | 20020228 (60) |
|                       | US 2002-367500P | 20020327 (60) |
|                       | US 2002-370227P | 20020408 (60) |
|                       | US 2002-378950P | 20020510 (60) |
|                       | US 2002-382617P | 20020524 (60) |
|                       | US 2002-383123P | 20020528 (60) |
|                       | US 2002-385708P | 20020605 (60) |
|                       | US 2002-394625P | 20020710 (60) |
|                       | US 2002-398008P | 20020724 (60) |
|                       | US 2002-402131P | 20020809 (60) |
|                       | US 2002-402708P | 20020813 (60) |
|                       | US 2002-411355P | 20020918 (60) |
|                       | US 2002-411426P | 20020918 (60) |
|                       | US 2002-414984P | 20021002 (60) |
|                       | US 2002-417611P | 20021011 (60) |
|                       | US 2002-420246P | 20021023 (60) |
|                       | US 2002-423623P | 20021105 (60) |

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT.,  
14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850, US  
NUMBER OF CLAIMS: 21  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 23 Drawing Page(s)  
LINE COUNT: 25129  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 7 OF 21 USPATFULL on STN

TI **Protamine** fragment compositions and methods of use  
AB Provided are **bioactive**, low-toxicity **protamine**  
fragments, compositions, combinations, kits and methods of using these  
components in a variety of embodiments, including neutralizing  
**heparin** and reducing post-operative bleeding. Improved  
**protamine** fragment-insulin solutions and methods for treating  
diabetes are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:118259 USPATFULL  
TITLE: **Protamine** fragment compositions and methods  
of use  
INVENTOR(S): Yang, Victor C., Ann Arbor, MI, UNITED STATES  
Byun, Youngro, Kwangsan-Ku Kwangju, KOREA, REPUBLIC OF

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 2005101532   | A1   | 20050512      |
| APPLICATION INFO.:    | US 2003-668663  | A1   | 20030923 (10) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2000-700967, filed on 16 Nov<br>2000, GRANTED, Pat. No. US 6624141 A 371 of<br>International Ser. No. WO 2000-US6876, filed on 15 Mar<br>2000 |      |               |

|                       | NUMBER  | DATE          |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 1999-124873P   | 19990317 (60) |
| DOCUMENT TYPE:        | Utility   |               |
| FILE SEGMENT:         | APPLICATION   |               |
| LEGAL REPRESENTATIVE: | WILLIAMS, MORGAN & AMERSON, P.C., 10333 RICHMOND, SUITE<br>1100, HOUSTON, TX, 77042, US |               |
| NUMBER OF CLAIMS:     | 19  |               |
| EXEMPLARY CLAIM:      | 1-47  |               |
| NUMBER OF DRAWINGS:   | 4 Drawing Page(s)   |               |
| LINE COUNT:           | 2727  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 8 OF 21 USPATFULL on STN

TI Albumin fusion proteins  
AB The present invention encompasses albumin fusion proteins. Nucleic acid  
molecules encoding the albumin fusion proteins of the invention are also  
encompassed by the invention, as are vectors containing these nucleic  
acids, host cells transformed with these nucleic acids vectors, and  
methods of making the albumin fusion proteins of the invention and using  
these nucleic acids, vectors, and/or host cells. Additionally the  
present invention encompasses pharmaceutical compositions comprising  
albumin fusion proteins and methods of treating, preventing, or  
ameliorating diseases, disorders or conditions using albumin fusion  
proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:117724 USPATFULL

TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES  
PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)

|  | NUMBER   | KIND | DATE          |
|--|--|------|---------------|
| PATENT INFORMATION:                        | US 2005100991  | A1   | 20050512      |
| APPLICATION INFO.:                         | US 2004-932104   | A1   | 20040902 (10) |
| RELATED APPLN. INFO.:                      | Division of Ser. No. US 2001-833118, filed on 12 Apr 2001, PENDING   |      |               |
| DOCUMENT TYPE:                             | Utility  |      |               |
| FILE SEGMENT:                              | APPLICATION  |      |               |
| LEGAL REPRESENTATIVE:                      | FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US |      |               |
| NUMBER OF CLAIMS:                          | 33   |      |               |
| EXEMPLARY CLAIM:                           | 1  |      |               |
| NUMBER OF DRAWINGS:                        | 20 Drawing Page(s)   |      |               |
| LINE COUNT:                                | 15444  |      |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |      |               |

L11 ANSWER 9 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating or preventing diseases, disorders or conditions related to diabetes mellitus using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:63530 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 2005054570   | A1   | 20050310      |
| APPLICATION INFO.:    | US 2004-775180  | A1   | 20040211 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. WO 2002-US40892, filed on 23 Dec 2002, PENDING |      |               |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2001-341811P | 20011221 (60) |
|                       | US 2002-360000P | 20020228 (60) |
|                       | US 2002-378950P | 20020510 (60) |
|                       | US 2002-398008P | 20020724 (60) |
|                       | US 2002-411355P | 20020918 (60) |
|                       | US 2002-414984P | 20021002 (60) |
|                       | US 2002-417611P | 20021011 (60) |
|                       | US 2002-420246P | 20021023 (60) |
|                       | US 2002-423623P | 20021105 (60) |
|                       | US 2002-350358P | 20020124 (60) |
|                       | US 2002-359370P | 20020226 (60) |
|                       | US 2002-367500P | 20020327 (60) |
|                       | US 2002-402131P | 20020809 (60) |
|                       | US 2002-402708P | 20020813 (60) |

US 2002-370227P 20020408 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT.,  
14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 32  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 13 Drawing Page(s)  
LINE COUNT: 20949  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 10 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:63014 USPATFULL

TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

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PATENT INFORMATION: US 2005054051 A1 20050310

APPLICATION INFO.: US 2004-922142 A1 20040820 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2001-832929, filed on 12 Apr 2001, PENDING

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,  
1300 I STREET, NW, WASHINGTON, DC, 20005

NUMBER OF CLAIMS: 33

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 17526

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 11 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:43296 USPATFULL

TITLE: Albumin fusion proteins

INVENTOR(S) : Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2005037022  | A1   | 20050217      |
| APPLICATION INFO.:    | US 2004-816042   | A1   | 20040402 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. WO 2002-US31794, filed on 4 Oct 2002, PENDING |      |               |

|  | NUMBER   | DATE          |
|--|--|---------------|
| PRIORITY INFORMATION:                      | US 2001-327281P  | 20011005 (60) |
| DOCUMENT TYPE:                             | Utility  |               |
| FILE SEGMENT:                              | APPLICATION  |               |
| LEGAL REPRESENTATIVE:                      | HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT., 14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850 |               |
| NUMBER OF CLAIMS:                          | 29   |               |
| EXEMPLARY CLAIM:                           | 1  |               |
| NUMBER OF DRAWINGS:                        | 18 Drawing Page(s)   |               |
| LINE COUNT:                                | 17090  |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |               |

L11 ANSWER 12 OF 21 USPATFULL on STN

TI ALBUMIN FUSION PROTEINS

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:221354 USPATFULL  
TITLE: ALBUMIN FUSION PROTEINS  
INVENTOR(S) : Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES

|  | NUMBER  | KIND | DATE         |
|--|---|------|--------------|
| PATENT INFORMATION:                        | US 2004171123   | A1   | 20040902     |
|  | US 6926898  | B2   | 20050809     |
| APPLICATION INFO.:                         | US 2001-832929  | A1   | 20010412 (9) |
| DOCUMENT TYPE:                             | Utility   |      |              |
| FILE SEGMENT:                              | APPLICATION   |      |              |
| LEGAL REPRESENTATIVE:                      | FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 1300 I STREET, NW, WASHINGTON, DC, 20005 |      |              |
| NUMBER OF CLAIMS:                          | 29  |      |              |
| EXEMPLARY CLAIM:                           | 1   |      |              |
| NUMBER OF DRAWINGS:                        | 18 Drawing Page(s)  |      |              |
| LINE COUNT:                                | 17424   |      |              |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |      |              |

L11 ANSWER 13 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and

methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

\*CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:13611 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2004010134  | A1   | 20040115     |
| APPLICATION INFO.:  | US 2001-833245 | A1   | 20010412 (9) |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-256931P | 20001221 (60) |
|                       | US 2000-199384P | 20000425 (60) |
|                       | US 2000-229358P | 20000412 (60) |

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 29  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 18 Drawing Page(s)  
LINE COUNT: 25066  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 14 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:312278 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2003219875  | A1   | 20031127     |
|                     | US 6905688     | B2   | 20050614     |
| APPLICATION INFO.:  | US 2001-833118 | A1   | 20010412 (9) |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-256931P | 20001221 (60) |
|                       | US 2000-199384P | 20000425 (60) |
|                       | US 2000-229358P | 20000412 (60) |

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 29  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 18 Drawing Page(s)  
LINE COUNT: 15415  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 15 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:282700 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Ballance, David J., Berwyn, PA, UNITED STATES  
Sleep, Darrell, West Bridgford, UNITED KINGDOM  
Prior, Christopher P., Rosemont, PA, UNITED STATES  
Sadeghi, Homayoun, Doylestown, PA, UNITED STATES  
Turner, Andrew J., Eagleville, PA, UNITED STATES

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2003199043  | A1   | 20031023     |
| APPLICATION INFO.:  | US 2001-832501 | A1   | 20010412 (9) |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-256931P | 20001221 (60) |
|                       | US 2000-199384P | 20000425 (60) |
|                       | US 2000-229358P | 20000412 (60) |

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 60  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 18 Drawing Page(s)  
LINE COUNT: 14339  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 16 OF 21 USPATFULL on STN

TI Protamine fragment compositions and methods of use

AB Provided are **bioactive**, low-toxicity **protamine** fragments, compositions, combinations, kits and methods of using these components in a variety of embodiments, including neutralizing **heparin** and reducing post-operative bleeding. Improved **protamine** fragment-insulin solutions and methods for treating diabetes are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:253624 USPATFULL

TITLE: **Protamine fragment compositions and methods of use**  
INVENTOR(S): Yang, Victor C., Ann Arbor, MI, United States  
PATENT ASSIGNEE(S): Byun, Youngro, Kwangsan-Ku Kwangju, KOREA, REPUBLIC OF  
The Regents of The University of Michigan, Ann Arbor,  
MI, United States (U.S. corporation)

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6624141     | B1   | 20030923     |
|                     | WO 2000055196  |      | 20000921     |
| APPLICATION INFO.:  | US 2000-700967 |      | 20001116 (9) |
|                     | WO 1999-US6876 |      | 19990309     |

|                       | NUMBER                                 | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 1999-124873P                        | 19990317 (60) |
| DOCUMENT TYPE:        | Utility                                |               |
| FILE SEGMENT:         | GRANTED                                |               |
| PRIMARY EXAMINER:     | Low, Christopher S. F.                 |               |
| ASSISTANT EXAMINER:   | Robinson, Hope A.                      |               |
| LEGAL REPRESENTATIVE: | Williams, Morgan and Amerson           |               |
| NUMBER OF CLAIMS:     | 89                                     |               |
| EXEMPLARY CLAIM:      | 1                                      |               |
| NUMBER OF DRAWINGS:   | 8 Drawing Figure(s); 4 Drawing Page(s) |               |
| LINE COUNT:           | 2952                                   |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 17 OF 21 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:244853 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Sadeghi, Homayoun, Doylestown, PA, UNITED STATES  
Prior, Christopher P., Rosemont, PA, UNITED STATES  
Turner, Andrew J., Egleville, PA, UNITED STATES

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2003171267  | A1   | 20030911     |
| APPLICATION INFO.:  | US 2001-833117 | A1   | 20010412 (9) |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-256931P  | 20001221 (60) |
|                       | US 2000-199384P  | 20000425 (60) |
|                       | US 2000-229358P  | 20000412 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,<br>ROCKVILLE, MD, 20850 |               |

NUMBER OF CLAIMS: 59  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 20 Drawing Page(s)  
LINE COUNT: 13208  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 18 OF 21 USPATFULL on STN  
TI Chemokine beta-1 fusion proteins

AB The present invention relates to novel chemokine polypeptides and encoding nucleic acids. More specifically, therapeutic compositions and methods are provided using isolated nucleic acid molecules encoding a human chemokine beta-1 (Ck $\beta$ -1 or Ckb1) polypeptide (previously termed monocyte-colony inhibitory factor (M-CIF), MIP1- $\gamma$ , and Hemofiltrate CC chemokine-1 (HCC-1)), and Ckb1 polypeptides themselves, as are vectors, host cells and recombinant methods for producing the same. Also provided are methods of treating, preventing, ameliorating diseases using such compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:206834 USPATFULL  
TITLE: Chemokine beta-1 fusion proteins  
INVENTOR(S): Bell, Adam, Germantown, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2003143191  | A1   | 20030731      |
| APPLICATION INFO.:  | US 2002-153604 | A1   | 20020524 (10) |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2001-293212P  | 20010525 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,<br>ROCKVILLE, MD, 20850 |               |
| NUMBER OF CLAIMS:     | 17   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| NUMBER OF DRAWINGS:   | 21 Drawing Page(s)   |               |
| LINE COUNT:           | 15446  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 19 OF 21 USPATFULL on STN  
TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:181414 USPATFULL  
TITLE: Albumin fusion proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Haseltine, William A., Washington, DC, UNITED STATES

|  | NUMBER | KIND | DATE |
|--|--------|------|------|
|  |        |      |      |

|                     |                |    |              |
|---------------------|----------------|----|--------------|
| PATENT INFORMATION: | US 2003125247  | A1 | 20030703     |
|                     | US 6994857     | B2 | 20060207     |
| APPLICATION INFO.:  | US 2001-833041 | A1 | 20010412 (9) |

| NUMBER | DATE |
|--------|------|
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|                       |                 |               |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-256931P | 20001221 (60) |
|                       | US 2000-199384P | 20000425 (60) |
|                       | US 2000-229358P | 20000412 (60) |

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 15235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 20 OF 21 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:99522 USPATFULL

TITLE: Nucleic acids, proteins, and antibodies

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES

PATENT ASSIGNEE(S): Barash, Steven C., Rockville, MD, UNITED STATES  
Human Genome Sciences, Inc., Rockville, MD, UNITED STATES  
STATES, 20850 (U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

|                     |               |    |          |
|---------------------|---------------|----|----------|
| PATENT INFORMATION: | US 2003068627 | A1 | 20030410 |
|---------------------|---------------|----|----------|

|                    |               |    |               |
|--------------------|---------------|----|---------------|
| APPLICATION INFO.: | US 2002-91458 | A1 | 20020307 (10) |
|--------------------|---------------|----|---------------|

|                       |  |  |  |
|-----------------------|--|--|--|
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-764900, filed on 17 Jan 2001, ABANDONED |  |  |
|-----------------------|--|--|--|

| NUMBER | DATE |
|--------|------|
|--------|------|

|                       |                 |               |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-179065P | 20000131 (60) |
|                       | US 2000-180628P | 20000204 (60) |
|                       | US 2000-214886P | 20000628 (60) |
|                       | US 2000-217487P | 20000711 (60) |
|                       | US 2000-225758P | 20000814 (60) |
|                       | US 2000-220963P | 20000726 (60) |
|                       | US 2000-217496P | 20000711 (60) |
|                       | US 2000-225447P | 20000814 (60) |
|                       | US 2000-218290P | 20000714 (60) |
|                       | US 2000-225757P | 20000814 (60) |

|                 |          |      |
|-----------------|----------|------|
| US 2000-226868P | 20000822 | (60) |
| US 2000-216647P | 20000707 | (60) |
| US 2000-225267P | 20000814 | (60) |
| US 2000-216880P | 20000707 | (60) |
| US 2000-225270P | 20000814 | (60) |
| US 2000-251869P | 20001208 | (60) |
| US 2000-235834P | 20000927 | (60) |
| US 2000-234274P | 20000921 | (60) |
| US 2000-234223P | 20000921 | (60) |
| US 2000-228924P | 20000830 | (60) |
| US 2000-224518P | 20000814 | (60) |
| US 2000-236369P | 20000929 | (60) |
| US 2000-224519P | 20000814 | (60) |
| US 2000-220964P | 20000726 | (60) |
| US 2000-241809P | 20001020 | (60) |
| US 2000-249299P | 20001117 | (60) |
| US 2000-236327P | 20000929 | (60) |
| US 2000-241785P | 20001020 | (60) |
| US 2000-244617P | 20001101 | (60) |
| US 2000-225268P | 20000814 | (60) |
| US 2000-236368P | 20000929 | (60) |
| US 2000-251856P | 20001208 | (60) |
| US 2000-251868P | 20001208 | (60) |
| US 2000-229344P | 20000901 | (60) |
| US 2000-234997P | 20000925 | (60) |
| US 2000-229343P | 20000901 | (60) |
| US 2000-229345P | 20000901 | (60) |
| US 2000-229287P | 20000901 | (60) |
| US 2000-229513P | 20000905 | (60) |
| US 2000-231413P | 20000908 | (60) |
| US 2000-229509P | 20000905 | (60) |
| US 2000-236367P | 20000929 | (60) |
| US 2000-237039P | 20001002 | (60) |
| US 2000-237038P | 20001002 | (60) |
| US 2000-236370P | 20000929 | (60) |
| US 2000-236802P | 20001002 | (60) |
| US 2000-237037P | 20001002 | (60) |
| US 2000-237040P | 20001002 | (60) |
| US 2000-240960P | 20001020 | (60) |
| US 2000-239935P | 20001013 | (60) |
| US 2000-239937P | 20001013 | (60) |
| US 2000-241787P | 20001020 | (60) |
| US 2000-246474P | 20001108 | (60) |
| US 2000-246532P | 20001108 | (60) |
| US 2000-249216P | 20001117 | (60) |
| US 2000-249210P | 20001117 | (60) |
| US 2000-226681P | 20000822 | (60) |
| US 2000-225759P | 20000814 | (60) |
| US 2000-225213P | 20000814 | (60) |
| US 2000-227182P | 20000822 | (60) |
| US 2000-225214P | 20000814 | (60) |
| US 2000-235836P | 20000927 | (60) |
| US 2000-230438P | 20000906 | (60) |
| US 2000-215135P | 20000630 | (60) |
| US 2000-225266P | 20000814 | (60) |
| US 2000-249218P | 20001117 | (60) |
| US 2000-249208P | 20001117 | (60) |
| US 2000-249213P | 20001117 | (60) |
| US 2000-249212P | 20001117 | (60) |
| US 2000-249207P | 20001117 | (60) |
| US 2000-249245P | 20001117 | (60) |
| US 2000-249244P | 20001117 | (60) |
| US 2000-249217P | 20001117 | (60) |

|                 |               |
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| US 2000-249211P | 20001117 (60) |
| US 2000-249215P | 20001117 (60) |
| US 2000-249264P | 20001117 (60) |
| US 2000-249214P | 20001117 (60) |
| US 2000-249297P | 20001117 (60) |
| US 2000-232400P | 20000914 (60) |
| US 2000-231242P | 20000908 (60) |
| US 2000-232081P | 20000908 (60) |
| US 2000-232080P | 20000908 (60) |
| US 2000-231414P | 20000908 (60) |
| US 2000-231244P | 20000908 (60) |
| US 2000-233064P | 20000914 (60) |
| US 2000-233063P | 20000914 (60) |
| US 2000-232397P | 20000914 (60) |
| US 2000-232399P | 20000914 (60) |
| US 2000-232401P | 20000914 (60) |
| US 2000-241808P | 20001020 (60) |
| US 2000-241826P | 20001020 (60) |
| US 2000-241786P | 20001020 (60) |
| US 2000-241221P | 20001020 (60) |
| US 2000-246475P | 20001108 (60) |
| US 2000-231243P | 20000908 (60) |
| US 2000-233065P | 20000914 (60) |
| US 2000-232398P | 20000914 (60) |
| US 2000-234998P | 20000925 (60) |
| US 2000-246477P | 20001108 (60) |
| US 2000-246528P | 20001108 (60) |
| US 2000-246525P | 20001108 (60) |
| US 2000-246476P | 20001108 (60) |
| US 2000-246526P | 20001108 (60) |
| US 2000-249209P | 20001117 (60) |
| US 2000-246527P | 20001108 (60) |
| US 2000-246523P | 20001108 (60) |
| US 2000-246524P | 20001108 (60) |
| US 2000-246478P | 20001108 (60) |
| US 2000-246609P | 20001108 (60) |
| US 2000-246613P | 20001108 (60) |
| US 2000-249300P | 20001117 (60) |
| US 2000-249265P | 20001117 (60) |
| US 2000-246610P | 20001108 (60) |
| US 2000-246611P | 20001108 (60) |
| US 2000-230437P | 20000906 (60) |
| US 2000-251990P | 20001208 (60) |
| US 2000-251988P | 20001205 (60) |
| US 2000-251030P | 20001205 (60) |
| US 2000-251479P | 20001206 (60) |
| US 2000-256719P | 20001205 (60) |
| US 2000-250160P | 20001201 (60) |
| US 2000-251989P | 20001208 (60) |
| US 2000-250391P | 20001201 (60) |
| US 2000-254097P | 20001211 (60) |
| US 2000-231968P | 20000912 (60) |
| US 2000-226279P | 20000818 (60) |
| US 2000-186350P | 20000302 (60) |
| US 2000-184664P | 20000224 (60) |
| US 2000-189874P | 20000316 (60) |
| US 2000-198123P | 20000418 (60) |
| US 2000-227009P | 20000823 (60) |
| US 2000-235484P | 20000926 (60) |
| US 2000-190076P | 20000317 (60) |
| US 2000-209467P | 20000607 (60) |
| US 2000-205515P | 20000519 (60) |
| US 2001-259678P | 20010105 (60) |

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 24  
EXEMPLARY CLAIM: 1  
LINE COUNT: 20034  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 21 OF 21 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:171924 USPATFULL

TITLE: Nucleic acids, proteins, and antibodies

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002090673  | A1   | 20020711     |
| APPLICATION INFO.:  | US 2001-764898 | A1   | 20010117 (9) |

|  | NUMBER          | DATE          |
|--|-----------------|---------------|
|  | US 2000-180628P | 20000204 (60) |
|  | US 2000-214886P | 20000628 (60) |
|  | US 2000-217487P | 20000711 (60) |
|  | US 2000-225758P | 20000814 (60) |
|  | US 2000-220963P | 20000726 (60) |
|  | US 2000-217496P | 20000711 (60) |
|  | US 2000-225447P | 20000814 (60) |
|  | US 2000-218290P | 20000714 (60) |
|  | US 2000-225757P | 20000814 (60) |
|  | US 2000-226868P | 20000822 (60) |
|  | US 2000-216647P | 20000707 (60) |
|  | US 2000-225267P | 20000814 (60) |
|  | US 2000-216880P | 20000707 (60) |
|  | US 2000-225270P | 20000814 (60) |
|  | US 2000-251869P | 20001208 (60) |
|  | US 2000-235834P | 20000927 (60) |
|  | US 2000-234274P | 20000921 (60) |
|  | US 2000-234223P | 20000921 (60) |
|  | US 2000-228924P | 20000830 (60) |
|  | US 2000-224518P | 20000814 (60) |
|  | US 2000-236369P | 20000929 (60) |
|  | US 2000-224519P | 20000814 (60) |
|  | US 2000-220964P | 20000726 (60) |

|                 |          |      |
|-----------------|----------|------|
| US 2000-241809P | 20001020 | (60) |
| US 2000-249299P | 20001117 | (60) |
| US 2000-236327P | 20000929 | (60) |
| US 2000-241785P | 20001020 | (60) |
| US 2000-244617P | 20001101 | (60) |
| US 2000-225268P | 20000814 | (60) |
| US 2000-236368P | 20000929 | (60) |
| US 2000-251856P | 20001208 | (60) |
| US 2000-251868P | 20001208 | (60) |
| US 2000-229344P | 20000901 | (60) |
| US 2000-234997P | 20000925 | (60) |
| US 2000-229343P | 20000901 | (60) |
| US 2000-229345P | 20000901 | (60) |
| US 2000-229287P | 20000901 | (60) |
| US 2000-229513P | 20000905 | (60) |
| US 2000-231413P | 20000908 | (60) |
| US 2000-229509P | 20000905 | (60) |
| US 2000-236367P | 20000929 | (60) |
| US 2000-237039P | 20001002 | (60) |
| US 2000-237038P | 20001002 | (60) |
| US 2000-236370P | 20000929 | (60) |
| US 2000-236802P | 20001002 | (60) |
| US 2000-237037P | 20001002 | (60) |
| US 2000-237040P | 20001002 | (60) |
| US 2000-240960P | 20001020 | (60) |
| US 2000-239935P | 20001013 | (60) |

DOCUMENT TYPE:

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